

Facility ID: 1652100076 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1652100076 Emissions Unit ID: F009 Issuance type: Final State Permit To Operate

[Go to the top of this document](#)

**Part II - Special Terms and Conditions**

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
  - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
  - (a) None.

**A. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
crucible type, electrically heated aluminum melt furnace with a maximum process weight rate capacity of 500 lbs/hr	OAC rule 3745-31-05 (PTI 16-1809)	11.4 lbs/day of particulate emissions
	OAC rule 3745-17-07	See A.2.b below.
	OAC rule 3745-17-08	See A.2.c below.

2. **Additional Terms and Conditions**
  - (a) The daily particulate emissions limitation is based on the emissions unit's potential to emit. Therefore, no recordkeeping, deviation reporting, or compliance method calculations are required with this limit. Visible particulate emissions of fugitive dust shall not exceed 20% opacity as a 3-minute average. The permittee shall comply with the restriction of emissions of fugitive dust, as required under OAC rule 3745-17-08, through the use of best available technology (BAT), as established in PTI 16-1809.

**B. Operational Restrictions**

1. The permittee shall employ only electricity as the heat source for this emissions unit.
2. The permittee shall charge this emissions unit with only clean aluminum materials (clean aluminum ingots, clean aluminum pigs, and clean foundry returns). Aluminum scrap or contaminated pigs, ingots, or foundry returns shall not be employed in this emissions unit.
3. Emissions unit F009, or any melt activity associated with emissions unit F009, shall not be demagged. Also, except for degassing primarily with argon gas, no other flux (i.e., degassing, cover, or solvent fluxes, etc.) shall be employed in this emissions unit or associated melt activity.
4. The permittee shall employ best available operating practices to minimize air contaminant emissions from this emissions unit.

**C. Monitoring and/or Record Keeping Requirements**

1. None

**D. Reporting Requirements**

1. None

**E. Testing Requirements**

1. Compliance with the emission limitations in sections A.1 and A.2 of these terms and conditions shall be determined in accordance with the following methods:  
 Emission Limitation:  
 20% opacity as a 3-minute average  
 Applicable Compliance Method:  
 Compliance shall be determined by visible particulate emission evaluations performed in accordance with the methods and procedures specified in OAC rule 3745-17-03(B)(3).  
 Emission Limitation:  
 11.4 lbs/day of particulate emissions

**Applicable Compliance Method:**

The permittee shall demonstrate compliance with the above limitation based upon the potential to emit calculations specified below:

For the purpose of determining daily potential emissions of particulates from this emissions unit, the following particulate emission factor from AP-42, Table 7.8-1, page 7.8-5, published in October, 1986 shall be utilized as well as the following emissions unit operating parameters:

**Particulate emission factor:**

crucible furnace smelting (S) : 1.9 lbs/ton of aluminum processed

**Emissions unit operating parameters:**

- i. maximum process weight rate (P): 500 lbs/hr;
- ii. pounds to ton conversion factor (T): 1 ton/2000 lbs; and
- iii. hours per day (H): 24 hrs/day;

Daily potential to emit of particulates, in lbs/day (PTE):

$$PTE = (S)(P)(T)(H) = 11.4 \text{ lbs/day}$$

**F. Miscellaneous Requirements**

1. The permittee shall comply with any applicable State and federal requirements governing the storage, treatment, transport, and disposal of any waste material generated by the operation of the source(s).
2. The permittee is hereby notified that this permit, and all agency records concerning the operation of this permitted emissions unit, is subject to public disclosure in accordance with OAC rule 3745-49-03.